



Customer Service Bulletin Commercial Business Group

Workman® 3200 & 4200 Series Vehicles

<u>Model/Serial Range:</u>	<u>Model Number:</u>	<u>Serial Numbers:</u>
	07200	30101 - 79999
	07202	50101 - 79999
	07216	50101 - 79999

Subject: Fuel from Carburetor may Flood Crankcase.

Fuel may enter the carburetor throat through a fuel return line when the engine is off causing fuel to enter the crankcase and the engine to run poorly. This condition is most often the result of debris from the fuel that lodges between the needle and seat, which can prevent the needle and seat from sealing properly.

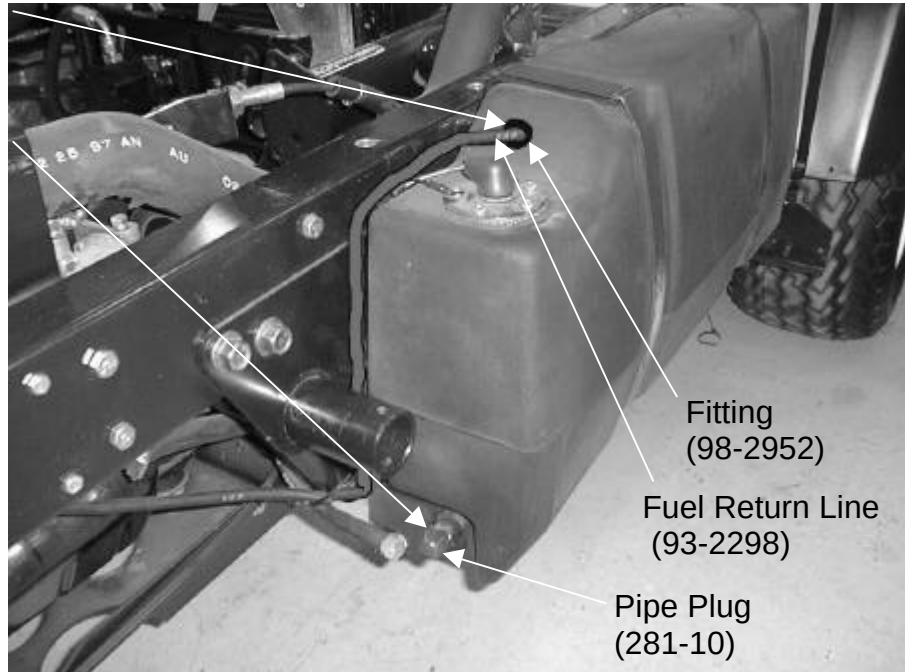
If your unit experiences this situation, the fuel return line may be relocated as described in the attached instructions. Carburetor cleaning instructions are also included. Further details regarding this bulletin are available through your local Toro distributor.

Workman® 3200 & 4200 Series

Relocating Fuel System Return Line - Carburetor Cleaning

Relocating the Fuel System Return Line

1. Disconnect negative battery cable from machine.
2. Drain fuel from fuel tank into an approved gasoline container.
3. Disconnect fuel lines and sending unit electrical connection and remove the tank from the machine.
4. Fill the tank with water.
5. Drill 33/64" (13mm) hole on flat surface as shown in picture.
6. Loosen clamp and unscrew fuel return line fitting from bottom of tank. Discard fitting.
7. Drain water from fuel tank and purge tank of all water and debris by using compressed air for several minutes.
8. Install fuel tank on machine and reconnect sending unit electrical connection.
9. Install Grommet (46-6560) into hole in fuel tank.
10. Press in Fitting (98-2952) into Grommet (46-6560).
11. Plug existing fuel tank return line fitting with Pipe Plug (281-10). Apply PTFE tape or equivalent to plug before installing into tank. Tighten clamp.
12. Install new Fuel Return Line (93-2298) into Fitting (98-2952).
13. Route Fuel Return Line (93-2298) along inside vertical edge of fuel tank through previous return line tie wrap to the carburetor.



Mitsubishi 3G83 Carburetor Cleaning Instructions

Remove the carburetor from the machine. Disassemble the carburetor and thoroughly clean out the Fuel Inlet System including the Fuel Inlet Chamber, Inlet Screen, Main Jet Holder Assembly, Float Chamber Cover Assembly, Float, Needle Valve and Seat. Clean the remainder of the carburetor body in a small container using clean, fresh solvent or carburetor cleaner. Used solvent can have debris that can enter the small passages of the carburetor. It is not recommended to use compressed air and force solvent into carburetor passages. It is recommended by Mikuni to use a suction action to pull debris out of the carburetor passages.

Fuel Inlet Chamber

The fuel system inlet line and return line is located on the side of the carburetor. Remove the inlet cover plate. Thoroughly clean this chamber using fresh solvent and reinstall cover plate.



Inlet Screen

The Inlet Screen is mounted on the bottom of the Needle Valve Seat. Rinse the Inlet Screen in fresh solvent and clean out by blowing compressed air through the screen in the opposite direction of fuel flow. Doing so will dislodge any debris buildup. Re-rinse Needle Valve Seat in clean solvent and re-install in carburetor. If the screen is damaged, or cannot be cleaned, replace by installing Needle Valve Kit ((92-5140)

Main Jet Holder Assembly

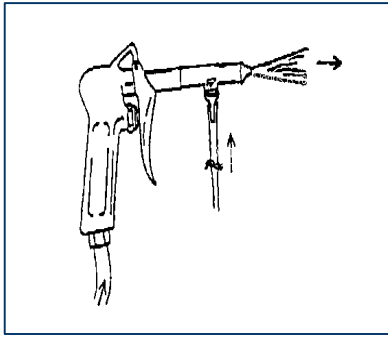
The Main Jet Holder Assembly houses the Main Jet, Pilot Jet and Power Jet and is located in the float chamber assembly. Remove jets from holder assembly and clean using fresh solvent. If the jets are corroded or cannot be cleaned using solvent, replace them by installing Main Jet Holder Assembly (92-5132).

IMPORTANT: DO NOT use a wire to clean out any jets or passages within the carburetor. A wire may damage the jet and prevent proper engine operation.



Float Chamber Cover Assembly, Float, Needle Valve and Seat.

Remove the Float Chamber Cover Assembly, Float Assembly, and Needle Valve and clean using fresh solvent. If the entire Float Chamber Cover, Float Assembly, and Needle Valve Assembly cannot be cleaned using solvent, replace the parts by installing Float Chamber Assembly (92-5144), Needle Valve Kit (92-5140), Float & Pin Kit (92-5127).



Carburetor Passages

Clean out the carburetor passages by using compressed air through an air gun as illustrated. The air gun will provide a suction that will pull debris out of the passages instead of forcing the debris deeper into the carburetor.

When cleaning the carburetor, the following items should not be disassembled due to adjustment and re-assembly concerns.

